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Preface

Citation for published version:

Danos, V & Laneve, C 2007, 'Preface', *Electronic Notes in Theoretical Computer Science*, vol. 180, no. 3, pp. 1 - 2. <https://doi.org/10.1016/j.entcs.2006.11.045>

Digital Object Identifier (DOI):

[10.1016/j.entcs.2006.11.045](https://doi.org/10.1016/j.entcs.2006.11.045)

Link:

[Link to publication record in Edinburgh Research Explorer](#)

Document Version:

Publisher's PDF, also known as Version of record

Published In:

Electronic Notes in Theoretical Computer Science

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Preface

This volume contains the proceedings of the First Workshop on Concurrent Models in Molecular Biology (BioConcur'03). The workshop was held in Marseille, France on September 6, 2003, as a satellite event to the International Conference on Concurrency Theory (Concur'03). The aim of the BioConcur workshop series is to bring to the attention of researchers in Logic and Concurrency the new and potentially huge field of application of Molecular Biology.

Post-genomics Systems Biology is trying to reconstruct networks of biochemical interactions (metabolic networks, extra and intracellular networks, networks of genetic regulation) of such a complexity, that there already is a very strong incentive towards formal modeling of both the processes observed and the means of observations. Pionnering work of Regev, Shapiro and various collaborators has shown that some varieties of pi-calculus may prove excellent tools for compositional and modular modeling of protein level interactions. The workshop aims at understanding if and how biological systems may be described, manipulated and analysed with the methods of Concurrency Theory.

The program committee of BioConcur'03 consisted of

- Luca Cardelli, Microsoft Research, Cambridge, UK;
- Vincent Danos, CNRS, University of Paris VII, France, (co-chair);
- Josée Desharnais, University of Laval, Canada;
- Anna Ingolfsdottir, Aalborg University, BRICS, Denmark;
- Cosimo Laneve, University of Bologna, Italy (co-chair);
- Gordon Plotkin, University of Edinburgh, UK;
- Corrado Priami, University of Trento, Italy;
- Aviv Regev, Harvard University, USA;
- Vincent Schachter, Genoscope, Evry, France.

The papers were refereed by the program committee and by several outside referees, whose help is gratefully acknowledged. The invited speakers at the conference were

- Luca Cardelli, Microsoft Research, Cambridge, UK;

- Walter Fontana, Santa Fe Institute, USA.

The BioConcur workshop has been organized as satellite event to Concur'03. We are very grateful to the Concur'03 organizers for taking care of all the local organization and for accommodating all our special requests. We also are grateful to ENTCS for their continuing support, in particular to Mike Mislove, Managing Editor of the ENTCS series.

Vincent Danos
Cosimo Laneve
November, 2006